



# HCAS Remedial Action Work Breakdown Structure (33 series) Third Level Burdened Cost Ranges

\*Unit cost ranges are based on latest Central Collection Repository Database

Before the ranges were compiled,  
data were normalized to:

December, 1999  
based on ENR Building Cost index  
Area Cost Factor of 1.0  
based on Military Area Cost Factors

## HCAS Burdened Cost Ranges

WBS Element	Unit of Measure	Unit Cost Range			# Projects	# cost elements
		25th percentile	Median	75th percentile		
331 00 00 00 HTRW REMEDIAL ACTION (CONSTRUCTION)						0
331 01 00 00 MOBILIZATION AND PREPARATORY WORK						0
331 01 01 00 Mobilization of Construction Equipment and Facilities	EA	\$6,386.44	\$14,434.90	\$34,644.57	42	42
331 01 02 00 Mobilization of Personnel	EA	\$2,573.51	\$7,038.71	\$25,344.96	24	24
331 01 03 00 Submittals / Implementation Plans	EA	\$2,747.36	\$7,780.04	\$17,398.42	27	29
331 01 04 00 Setup / Construct Temporary Facilities	EA	\$11,066.63	\$60,772.59	\$167,643.30	28	29
331 01 05 00 Construct Temporary Utilities	EA	\$2,457.61	\$17,281.72	\$82,885.40	14	15
331 01 06 00 Temporary Relocations / Roads / Structures / Utilities	EA		\$5,085.58		2	3
331 01 07 00 Construction Plant Erection	EA					0
331 01 08 00 Institutional Controls	EA					0
331 01 09 00 Alternate Water Supply	EA					0
331 01 10 00 Population Relocation	EA					0
331 02 00 00 MONITORING, SAMPLING, TESTING, AND ANALYSIS						0

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### Notes:

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WBS Element					Unit of Measure	Unit Cost Range			# Projects	# cost elements
						25th percentile	Median	75th percentile		
331	02	01	00	Meteorological Monitoring	EA		\$15,436.04		1	1
331	02	02	00	Radiation Monitoring	EA		\$22,574.50		3	3
331	02	03	00	Air Monitoring and Sampling	EA	\$195.84	\$7,110.40	\$10,063.87	12	13
331	02	04	00	Monitoring Wells	EA	\$2,066.14	\$4,353.90	\$20,931.08	26	27
331	02	05	00	Sampling Surface Water / Ground Water / Liquid Waste	EA	\$306.65	\$967.01	\$7,938.53	19	23
331	02	06	00	Sampling Soil and Sediment	EA	\$46.15	\$271.94	\$456.28	22	24
331	02	07	00	Sampling Asbestos	EA					0
331	02	08	00	Sampling Radioactive Contaminated Media	EA		\$17,614.01		3	3
331	02	09	00	Laboratory Chemical Analysis	EA	\$164.53	\$284.71	\$1,191.75	31	34
331	02	10	00	Radioactive Waste Analysis	EA		\$106,116.90		2	2
331	02	11	00	Geotechnical Testing	EA	\$15.47	\$152.96	\$230.22	4	4
331	02	12	00	Geotechnical Instrumentation	EA		\$8,569.71		3	3
331	02	13	00	On - Site Laboratory Facilities	EA		\$192,868.00		3	3
331	02	14	00	Off - Site Laboratory Facilities	EA		\$34,722.13		1	1
331	03	00	00	SITEWORK						0
331	03	01	00	Demolition	SY	\$4.86	\$20.98	\$36.36	12	15
331	03	02	00	Clearing and Grubbing	ACR	\$3,094.53	\$5,509.34	\$21,421.64	25	29
331	03	03	00	Earthwork	CY	\$5.51	\$9.39	\$17.57	32	33
331	03	04	00	Roads / Parking / Curbs / Walks	SY	\$9.30	\$21.16	\$29.10	28	29
331	03	05	00	Fencing	LF	\$12.40	\$18.93	\$29.74	23	25
331	03	06	00	Electrical Distribution	LF	\$17.86	\$23.31	\$94.14	11	11
331	03	07	00	Telephone / Communication Distribution	LF		\$7.65		1	1
331	03	08	00	Water / Sewer / Gas Distribution	LF	\$61.56	\$64.09	\$78.16	9	9
331	03	09	00	Steam and Condensate Distribution	LF					0
331	03	10	00	Fuel Line Distribution	LF		\$27.69		2	2
331	03	11	00	Storm Drainage / Subdrainage	LF	\$15.25	\$30.70	\$103.38	7	7
331	03	12	00	Permanent Cover Structure Over Contaminated Area	SF					0

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WBS Element					Unit of Measure	Unit Cost Range			# Projects	# cost elements
						25th percentile	Median	75th percentile		
331	03	13	00	Development of Borrow Pit / Haul Roads	ACR	\$40,342.64	\$69,184.04	\$73,276.17	4	6
331	03	14	00	Fuel Storage Tanks (New)	EA		\$53,747.71		3	3
331	04	00	00	ORDNANCE & EXPLOSIVE - CHEMICAL WARFARE MATERIAL (OE-CWM) R						0
331	04	01	00	Ordnance Removal and Destruction	ACR					0
331	05	00	00	SURFACE WATER COLLECTION AND CONTROL						0
331	05	01	00	Berms / Dikes	LF		\$2.14		1	1
331	05	02	00	Floodwalls	SF					0
331	05	03	00	Levees	LF					0
331	05	04	00	Terraces and Benches	LF					0
331	05	05	00	Channels / Waterways (Soil / Rock)	LF					0
331	05	06	00	Chutes or Flumes	LF					0
331	05	07	00	Sediment Barriers	LF	\$2.67	\$3.61	\$6.65	13	14
331	05	08	00	Storm Drainage	LF		\$237.49		1	1
331	05	09	00	Lagoons / Basins / Tanks / Dikes / Pump System	ACR		\$197,434.50		2	2
331	05	10	00	Pumping / Draining / Collection	MGA	\$16.65	\$22.48	\$32.02	6	6
331	05	11	00	Transport to Treatment Plant	MGA					0
331	05	12	00	Earthwork	CY		\$47.81		1	1
331	05	13	00	Erosion Control	ACR	\$2,997.18	\$13,136.71	\$35,097.30	6	7
331	05	14	00	Development of Borrow Pit / Haul Roads	ACR					0
331	06	00	00	GROUNDWATER COLLECTION AND CONTROL						0
331	06	01	00	Extraction and Injection Wells	EA	\$11,156.91	\$26,052.40	\$70,183.23	21	26
331	06	02	00	Subsurface Drainage / Collection	LF	\$68.28	\$71.32	\$193.30	5	5
331	06	03	00	Slurry Walls	SF		\$6.06		1	1
331	06	04	00	Grout Curtain	SF					0
331	06	05	00	Sheet Piling	SF		\$44.19		2	2

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						25th percentile	Median	75th percentile		
331	06	06	00	Lagoons / Basins / Tanks / Dikes / Pump System	ACR		\$4,372.44		1	1
331	06	07	00	Pumping / Collection	MGA	\$1.15	\$25.21	\$96.33	8	9
331	06	08	00	Transport to Treatment Plant	MGA					0
331	06	09	00	Development of Borrow Pit / Haul Roads	ACR					0
331	07	00	00	AIR POLLUTION / GAS COLLECTION AND CONTROL						0
331	07	01	00	Gas / Vapor Collection Trench System	LF					0
331	07	02	00	Gas / Vapor Collection Well System	EA		\$3,108.22		1	1
331	07	03	00	Gas / Vapor Collection at Lagoon Cover	SY					0
331	07	04	00	Fugitive Dust / Vapor / Gas Emissions Control	ACR	\$771.71	\$13,902.67	\$30,686.45	5	5
331	08	00	00	SOLIDS COLLECTION AND CONTAINMENT						0
331	08	01	00	Contaminated Soil Collection	CY	\$6.62	\$10.35	\$36.55	22	24
331	08	02	00	Waste Containment, Portable (Furnish / Fill)	CY	\$2.16	\$22.05	\$40.25	4	6
331	08	03	00	Transport to Treatment Plant	CY	\$3.27	\$16.84	\$28.45	5	9
331	08	04	00	Radioactive Specific Waste Containment (Furnish / Fill)	CY					0
331	08	05	00	Capping of Contaminated Area / Waste Pile (Soil / Asphalt Cap)	ACR	\$55,197.91	\$199,199.00	\$301,862.19	11	13
331	08	06	00	Nuclear Waste Densification (Dynamic Compaction)	CY					0
331	08	07	00	Development of Borrow Pit / Haul Roads	ACR					0
331	09	00	00	LIQUIDS / SEDIMENTS / SLUDGES COLLECTION AND CONTAINMENT						0
331	09	01	00	Dredging / Excavating	CY		\$16.57		2	2
331	09	02	00	Industrial Vacuuming	CY					0
331	09	03	00	Waste Containment, Portable (Furnish / Fill)	MGA		\$42.60		1	1
331	09	04	00	Transport to Treatment Plant	MGA	\$71.97	\$452.46	\$2,166.28	7	8
331	09	05	00	Radioactive Specific Waste Containment (Furnish / Fill)	MGA					0
331	09	06	00	Pumping / Draining / Collection	MGA	\$30.76	\$506.22	\$1,832.46	7	9
331	09	07	00	Lagoons / Basins / Tanks / Dikes / Pump System	ACR		\$166,738.50		1	2

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						25th percentile	Median	75th percentile		
331	09	08	00	Development of Borrow Pit / Haul Roads	ACR					0
331	10	00	00	DRUMS / TANKS / STRUCTURES / MISCELLANEOUS DEMOLITION AND RE						0
331	10	01	00	Drum Removal	EA	\$72.19	\$2,430.04	\$6,109.85	6	6
331	10	02	00	Tank Removal	EA	\$2,565.63	\$6,376.24	\$17,148.04	13	23
331	10	03	00	Structure Removal	SF	\$7.21	\$12.33	\$42.24	11	11
331	10	04	00	Asbestos Abatement	SF	\$3.77	\$11.27	\$21.05	9	9
331	10	05	00	Piping and Pipeline Removal	LF		\$15.00		2	2
331	10	06	00	Radioactive Specific Waste Containment (Furnish / Fill)	CY					0
331	10	07	00	Miscellaneous Items	ACR	\$3,823.23	\$43,708.57	\$66,289.59	7	8
331	10	08	00	Contaminated Paint Removal	SF					0
331	11	00	00	BIOLOGICAL TREATMENT						0
331	11	01	00	Activated Sludge (Seq Batch Reactors)	MGA	\$3.14	\$12.87	\$14.05	3	6
331	11	02	00	Rotating Biological Contractors	MGA					0
331	11	03	00	Land Treatment / Farming (Solid Phase Biodegradation)	CY		\$8.12		1	1
331	11	04	00	In - Situ Biodegradation / Bioreclamation	CY					0
331	11	05	00	Trickling Filters	MGA					0
331	11	06	00	Biological Lagoons	MGA					0
331	11	07	00	Composting	CY					0
331	11	08	00	Sludge Stabilization - Aerobic	CY					0
331	11	09	00	Sludge Stabilization - Anaerobic	CY					0
331	11	10	00	Genetically Engineered Organisms (White Rot Fungus)	CY					0
331	11	11	00	Slurry Biodegradation	CY					0
331	11	12	00	Bioventing	SF					0
331	11	13	00	Bioslurping	SF					0
331	11	14	00	Biopile (Heap Pile Remediation)	CY					0
331	11	50	00	Construction of Permanent Plant Facility	EA					0

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						25th percentile	Median	75th percentile		
331	12	00	00	CHEMICAL TREATMENT						0
331	12	01	00	Oxidation / Reduction	MGA		\$9.60		2	3
331	12	02	00	Solvent Extraction	MGA					0
331	12	03	00	Chlorination	MGA		\$40.94		1	1
331	12	04	00	Ozonation	MGA					0
331	12	05	00	Ion Exchange	MGA		\$28.60		2	3
331	12	06	00	Neutralization	MGA	\$0.06	\$6.05	\$10.43	3	4
331	12	07	00	Chemical Hydrolysis	MGA					0
331	12	08	00	Ultraviolet Photolysis	MGA					0
331	12	09	00	Dehalogenation (Catalytic Dechlorination)	CY					0
331	12	10	00	Alkali Metal Dechlorination	CY					0
331	12	11	00	Alkali Metal / Polyethylene Glycol (A / PEG)	CY					0
331	12	12	00	Base - Catalyzed Decomposition Process	CY					0
331	12	13	00	Electrolysis	MGA					0
331	12	14	00	Vapor Recovery / Reuse (Internal Combustion Engine)	CF					0
331	12	50	00	Construction of Permanent Plant Facility	EA					0
331	13	00	00	PHYSICAL TREATMENT						0
331	13	01	00	Filtration / Ultrafiltration	MGA	\$0.69	\$1.25	\$6.08	5	6
331	13	02	00	Sedimentation	MGA					0
331	13	03	00	Straining	MGA		\$0.33		1	1
331	13	04	00	Coagulation / Flocculation / Precipitation	MGA	\$2.09	\$2.93	\$52.27	5	7
331	13	05	00	Equalization	MGA		\$1.04		2	2
331	13	06	00	Evaporation	MGA					0
331	13	07	00	Air Stripping	MGA	\$1.89	\$6.07	\$57.36	13	23
331	13	08	00	Steam Stripping	MGA					0
331	13	09	00	Soil Washing (Surfactant / Solvent)	CY					0

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						25th percentile	Median	75th percentile		
331	13	10	00	Soil Flushing (Surfactant / Solvent)	CY		\$0.57		1	1
331	13	11	00	Solids Dewatering	CY	\$2.29	\$56.01	\$319.82	3	6
331	13	12	00	Oil / Water Separation	MGA	\$19.42	\$91.26	\$508.32	5	6
331	13	13	00	Dissolved Air Floatation	MGA					0
331	13	14	00	Heavy Media Separation	CY					0
331	13	15	00	Distillation	MGA					0
331	13	16	00	Chelation	MGA					0
331	13	17	00	Solvent Extraction	MGA					0
331	13	18	00	Supercritical Extraction	MGA					0
331	13	19	00	Carbon Adsorption - Gases	CF		\$5.14		2	3
331	13	20	00	Carbon Adsorption - Liquids	MGA	\$0.59	\$1.78	\$2.55	7	12
331	13	21	00	Membrane Separation - Reverse Osmosis	MGA					0
331	13	22	00	Membrane Separation - Electrodialysis	MGA					0
331	13	23	00	Soil Vapor Extraction	CY	\$33.32	\$33.32	\$33.32	1	6
331	13	24	00	Shredding	CY					0
331	13	25	00	Aeration	CY					0
331	13	26	00	Advanced Electrical Reactor	CY					0
331	13	27	00	Low Level Waste (LLW) Compaction	CY					0
331	13	28	00	Agglomeration	CY					0
331	13	29	00	In - Situ Steam Extraction	MGA					0
331	13	30	00	Filter Presses	MGA	\$2.86	\$7.79	\$141.20	6	7
331	13	31	00	Lignin Adsorption / Sorptive Clays	CY					0
331	13	32	00	Air Sparging	GAL					0
331	13	50	00	Construction of Permanent Plant Facility	EA		\$2,363,570.00		1	1
331	14	00	00	THERMAL TREATMENT						0
331	14	01	00	Incineration	CY	\$39.58	\$72.52	\$83.11	5	6
331	14	02	00	Low Temperature Thermal Desorption	CY	\$37.70	\$144.87	\$263.26	3	4

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						25th percentile	Median	75th percentile		
331	14	03	00	Supercritical Water Oxidation	MGA					0
331	14	04	00	Molten Salt Destruction	CY					0
331	14	05	00	Radio Frequency Heating	CY					0
331	14	06	00	Solar Detoxification	CY					0
331	14	07	00	High Temperature Thermal Desorption	CY					0
331	15	00	00	STABILIZATION / FIXATION / ENCAPSULATION						0
331	15	01	00	Molten Glass	CY					0
331	15	02	00	In - Situ Vitrification	CY					0
331	15	03	00	In - Situ Pozzolan Process (Lime / Portland Cement)	CY		\$327.74		1	1
331	15	04	00	Pozzolan Process (Lime / Portland Cement)	CY	\$8.94	\$32.86	\$63.77	3	12
331	15	05	00	Asphalt - Based Encapsulation	CY					0
331	15	06	00	Radioactive Waste Solidification (Grouting / Other)	CY					0
331	15	07	00	Sludge Stabilization (Aggregate / Rock / Slag)	CY		\$44.98		1	2
331	15	50	00	Construction of Permanent Plant	EA					0
331	16	00	00	RESERVED FOR FUTURE USE						0
331	17	00	00	DECONTAMINATION AND DECOMMISSIONING (D&D)						0
331	17	01	00	Pre - Decommissioning Operations	SF					0
331	17	02	00	Facility Shutdown Activities	SF					0
331	17	03	00	Procurement of Equipment and Material	SF					0
331	17	04	00	Dismantling Activities	SF					0
331	17	05	00	Research and Development (R&D)	SF					0
331	17	06	00	Spent Fuel Handling	SF					0
331	17	07	00	Hot Cell Cleanup	SF					0
331	18	00	00	DISPOSAL (OTHER THAN COMMERCIAL)						0

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						25th percentile	Median	75th percentile		
331	18	01	00	Landfill / Burial Ground / Trench / Pits	CY		\$89.31		3	3
331	18	02	00	Above - Ground Vault	CY					0
331	18	03	00	Underground Vault	CY	\$5.98	\$7.24	\$18.44	3	4
331	18	04	00	Underground Mine / Shaft	CY					0
331	18	05	00	Tanks	MGA					0
331	18	06	00	Pads (Tumulus / Retrievable Storage / Other)	CY		\$9.78		1	1
331	18	07	00	Storage Bldgs / Protect Cover Struct / Other Bldgs and Struct	CY					0
331	18	08	00	Cribs	CY					0
331	18	09	00	Deep Well Injection	MGA					0
331	18	10	00	Incinerator	CY					0
331	18	15	00	Construction of Permanent Disposal Facility						0
331	18	20	00	Container Handling	EA					0
331	18	21	00	Transportation to Storage / Disposal Facility	TON	\$5.86	\$30.98	\$47.62	4	4
331	18	22	00	Disposal Fees and Taxes	TON		\$181.60		1	1
331	18	23	00	Mixed Waste Storage Fees and Taxes	TON					0
331	19	00	00	DISPOSAL (COMMERCIAL)						0
331	19	20	00	Container Handling	EA	\$58.64	\$8,782.57	\$38,661.28	6	8
331	19	21	00	Transportation to Storage / Disposal Facility	TON	\$29.32	\$55.89	\$245.75	36	49
331	19	22	00	Disposal Fees and Taxes	TON	\$35.50	\$96.20	\$213.57	22	33
331	19	23	00	Mixed Waste Storage Fees and Taxes	TON					0
331	20	00	00	SITE RESTORATION						0
331	20	01	00	Earthwork	CY	\$6.88	\$12.75	\$27.23	25	30
331	20	02	00	Permanent Markers	EA					0
331	20	03	00	Permanent Features	EA	\$19,949.84	\$93,896.37	\$379,638.91	7	8
331	20	04	00	Revegetation and Planting	ACR	\$2,707.50	\$5,707.67	\$17,605.17	35	37
331	20	05	00	Removal of Barriers	EA					0

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						25th percentile	Median	75th percentile		
331	21	00	00	DEMOBILIZATION						0
331	21	01	00	Removal of Temporary Facilities	EA	\$1,425.42	\$5,287.76	\$10,837.08	18	19
331	21	02	00	Removal of Temporary Utilities	EA	\$349.88	\$2,573.51	\$4,903.44	5	6
331	21	03	00	Final Decontamination	EA	\$8,629.18	\$21,715.15	\$75,925.95	6	6
331	21	04	00	Demobilization of Construction Equipment and Facilities	EA	\$3,654.11	\$8,570.16	\$20,573.23	30	30
331	21	05	00	Demobilization of Personnel	EA	\$2,573.51	\$5,997.08	\$18,304.27	14	14
331	21	06	00	Submittals	EA	\$2,698.42	\$4,700.67	\$7,747.92	14	14
331	21	07	00	Construction Plant Takedown	EA		\$47,227.01		1	1
331	22	00	00	GENERAL REQUIREMENTS (Optional Breakout)						0
331	22	01	00	Supervision and Management	MO					0
331	22	02	00	Administration Job Office	MO					0
331	22	03	00	Warehouse, Materials Handling, and Purchasing	MO					0
331	22	04	00	Engineering, Surveying, and Quality Control	MO					0
331	22	05	00	Equipment Maintenance and Motor Pool	MO					0
331	22	06	00	First Aid, Fire Protection, Traffic Control, and Security	MO		\$4,347.49		1	1
331	22	07	00	Health & Safety	MO					0
331	22	08	00	Temporary Construction Facilities - Ownership	MO					0
331	22	09	00	Temporary Construction Facilities - Operation	MO		\$181,818.20		1	1
331	22	10	00	Project Utilities	MO					0
331	22	11	00	Miscellaneous Project Expenses	MO					0
331	22	12	00	Insurance, Interest, and Fees	MO					0
332	00	00	00	Engineering During Construction (EDC)						0
333	00	00	00	Supervision & Administration (S&A) Construction Management						0

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**Notes:**

\* For WBS elements with less than 4 cost elements, only a Median is shown.

\* Each HCAS project file has a series of costs, organized by the HTRW WBS. A single project may have more than one of these cost elements. Above, both the number of cost elements and projects are shown.

# HCAS Burdened Cost Ranges

WBS Element	Unit of Measure	Unit Cost Range			# Projects	# cost elements
		25th percentile	Median	75th percentile		
<div></div>						

Notes:

- \* For WBS elements with less than 4 cost elements, only a Median is shown.
- \* Each HCAS project file has a series of costs, organized by the HTRW WBS. A single project may have more than one of these cost elements. Above, both the number of cost elements and projects are shown.